

CLAIMS:

1. An ink composition comprising:
 - a. a pigment or pigment dispersion;
 - b. an alkyd-stabilized acrylic dispersion having a non-volatile materials content of
5 greater than 70%; and
 - c. an ink solvent.
2. The ink composition of claim 1, wherein the alkyd-stabilized acrylic dispersion comprises:
 - a. an alkyd resin;
 - b. at least one acrylic monomer suitable for free radical addition polymerization, wherein
10 at least one of the monomers is hydroxy-functional; and
 - c. a chain transfer agent..
3. An ink composition comprising:
 - a. between about 40% to about 60% of a pigment or pigment dispersion;
 - b. between about 20% to about 60% of an alkyd-stabilized acrylic dispersion having a
15 non-volatile materials content of greater than 70%; and
 - c. between about 2% to about 25% of an ink solvent.
4. The ink composition of claim 1, wherein the alkyd-stabilized acrylic dispersion comprises:
 - a. between about 25% to about 99% alkyd resin;
 - b. between about 1 to about 75% of at least one acrylic monomer, wherein at least one
20 acrylic monomer is hydroxy-functional; and
 - c. between about 0.1 to about 6% of a chain transfer agent.
5. The ink composition of claim 4, wherein the hydroxy-functional acrylic monomer is present
at between about 5% and 35% of the total monomers.

6. The ink composition of claim 2, wherein the alkyd resin has a z-average molecular weight greater than 20,000 and a non-volatile materials content greater than about 70%, an oil length in the range of about 40% to about 85%, an acid value of less than 10, and wherein the alkyd comprises drying, or non-drying natural oil.
- 5 7. The ink composition of claim 1, wherein the alkyd-stabilized acrylic resin has a non-volatile materials content of greater than about 70% and a viscosity of from 100 -10,000 centipoise as measured using the Brookfield LVT viscometer with #3 spindle at 12 rpm and 25° C.
8. The ink composition of claim 2, wherein the alkyd-stabilized acrylic dispersion further comprises a natural or synthetic oil.
- 10 9. The ink composition of claim 1, wherein the pigment or pigment dispersion is from about 40% to about 60% of the total weight of the ink composition, the alkyd-stabilized acrylic resin is from about 20% to about 60% by weight of the total ink composition, and the ink solvent is from about 2% to about 25% by weight of the total ink composition.
10. The ink composition of claim 1, wherein the alkyd is derived from a triglyceride oil.
- 15 11. The ink composition of claim 10, wherein the triglyceride oil is selected from the group consisting of linseed oil, soya oil, coconut oil, cottonseed oil, peanut oil, canola oil, corn oil, safflower oil, sunflower oil, dehydrated castor oil, fish oil, perilla, lard, walnut oil, tung oil and mixtures thereof.
12. The ink composition of claim 1, wherein the solvent can be selected from the group
20 consisting of alcohols, esters, ketones, petroleum distillates, and aromatic naphthas.
13. The ink composition of claim 1, where the alkyd-stabilized acrylic dispersion has a non-volatile materials content of greater than 85%.